

# VNH12-80W T3

12V 80 W/Cell 15min (20Ah / 20h)

# BATTERY Samson

### Introduction

Samson NH (high rate) series is primarily for heavy load discharge in short time backup especially in UPS applications. Designed with a high-density plate technology, the series battery is featured of high consistency, excellent performance and reliable standby service life.

### Battery Features

- High rate output aimed at the UPS market
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- Very high purity lead

### Electrical Specification

|  |              |
|--|--------------|
| Design floating Life @ 25°C (77°F)                   | 5 years      |
| Design Life Cycles @ 50% D.O.D. (25°C)               | 600 Cycles   |
| Nominal Capacity @ 25°C /77°F                        |              |
| 20 hour rate 1 A to 1.75V/cell                       | 20 Ah        |
| Watt @ 15min to 1.67V/cell                           | 79 W/cell    |
| Watt @ 10min to 1.67V/cell                           | 104 W/cell   |
| Internal Resistance                                  |              |
| (Fully charged battery @ 25°C /77°F )                | 9.5mΩ        |
| Max. Discharge Current @ 25°C /77°F                  | 280A (5S)    |
| Short Circuit Current                                | 340 A        |
| Charge Methods: Constant voltage charge @ 25°C /77°F |              |
| Cycle Use  | 14.7 ~ 14.9V |
| Max. Current   | 6.0 A        |
| Max Current for best battery life                    | 4.6 A        |
| Standby Use  | 13.6 - 13.8V |
| Operating Temperature Range                          | -30 ~ 50°C   |

Notes: battery voltage must be adjusted according to temperature.  
Effect of temperature on float charge voltage: -3mV/ °C/Cell.

**Self-Discharge**  
3% of capacity declined per month @ 25°C (77°F).

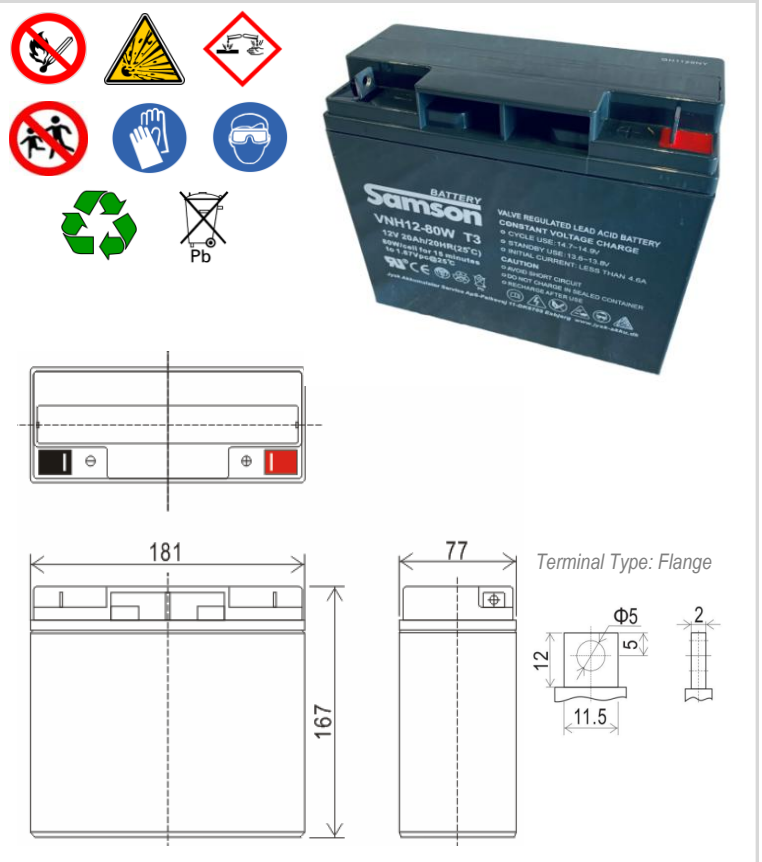
### Typical Applications

- UPS/EPS (High rate)
- Emergency lighting
- High power backup supply
- Electric starting
- Emergency power supply

### Certificates



### Battery Picture & Terminal Layout



### Dimension & Weight

| Length   | Dimension (± 2mm) |          |          | Total Height | Weight (± 2%) |
|----------|-------------------|----------|----------|--------------|---------------|
|          | Width             | Height   | Height   |              |               |
| 181 mm   | 77 mm             | 167 mm   | 167 mm   | 6,10 kg      |               |
| 7,1 inch | 3,0 inch          | 6,6 inch | 6,6 inch | 13,4 lbs     |               |

### Constant Current Discharge (Amperes @ 25°C /77°F)

| V/cell | 3min  | 5min  | 10min | 15min | 20min | 30min | 45min | 1hr   | 2hr  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1,60   | 99,83 | 89,14 | 52,33 | 39,15 | 32,12 | 23,66 | 17,63 | 14,99 | 8,83 |
| 1,65   | 99,30 | 85,71 | 50,51 | 38,94 | 31,49 | 23,43 | 17,60 | 14,83 | 8,81 |
| 1,70   | 97,74 | 83,89 | 49,64 | 38,33 | 31,45 | 23,28 | 17,56 | 14,77 | 8,75 |
| 1,75   | 94,78 | 76,58 | 47,58 | 37,17 | 30,74 | 23,09 | 17,53 | 14,75 | 8,68 |
| 1,80   | 90,20 | 69,20 | 44,03 | 35,37 | 29,43 | 22,46 | 17,13 | 14,56 | 8,61 |

### Constant Power Discharge (Watts/cell @ 25°C /77°F)

| V/cell | 3min  | 5min  | 10min | 15min | 20min | 30min | 45min | 1hr   | 2hr   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1,60   | 205,8 | 181,6 | 107,4 | 80,7  | 65,92 | 48,53 | 36,22 | 29,39 | 16,75 |
| 1,65   | 204,3 | 177,0 | 106,5 | 80,1  | 65,52 | 48,23 | 35,85 | 29,12 | 16,38 |
| 1,67   | 202,0 | 173,4 | 104,0 | 79,0  | 64,62 | 47,42 | 35,49 | 29,01 | 16,07 |
| 1,70   | 201,2 | 165,6 | 101,6 | 78,9  | 63,83 | 46,99 | 35,24 | 28,72 | 15,56 |
| 1,75   | 199,0 | 160,3 | 98,2  | 78,0  | 62,47 | 46,62 | 34,92 | 28,19 | 15,02 |
| 1,80   | 187,7 | 141,9 | 90,6  | 73,6  | 60,82 | 46,46 | 34,44 | 27,51 | 14,69 |

Above discharge data (Amps/watts) is average values after batteries are fully charged.

### Other relevant information

Contry of origin: **China** HS Code (harmonized system code): **85 07 20 00**  
UN-Transport declaration: **UN2800** Customs tariff number **8507 10 20 80**

Subject to revision without notice. Please contact our sales representatives for latest version.

Web: [www.jysk-akku.dk](http://www.jysk-akku.dk)

E-mail: [jvba@jysk-akku.dk](mailto:jvba@jysk-akku.dk)

Version No.: 18-01-2021

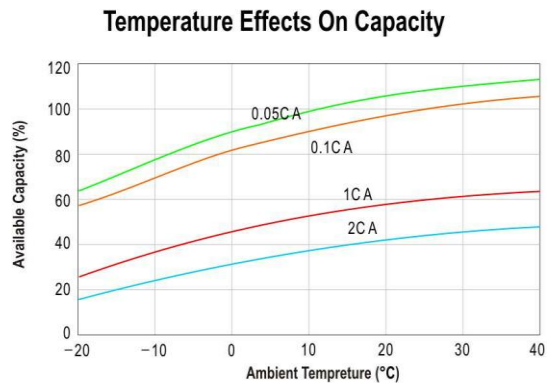
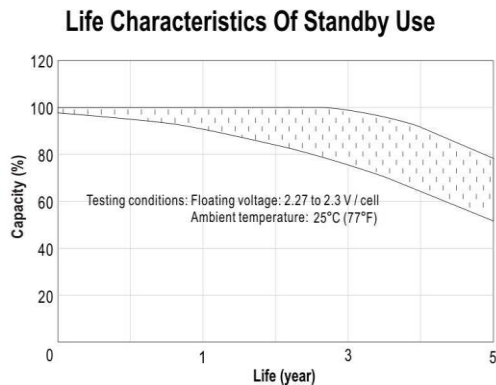
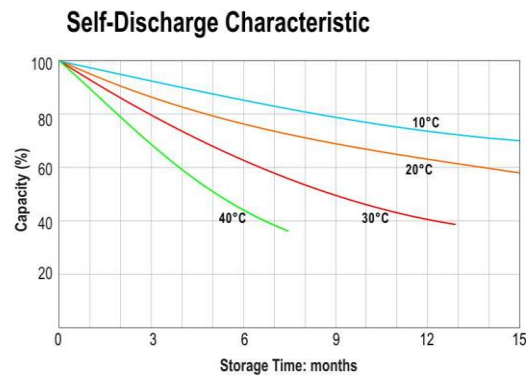
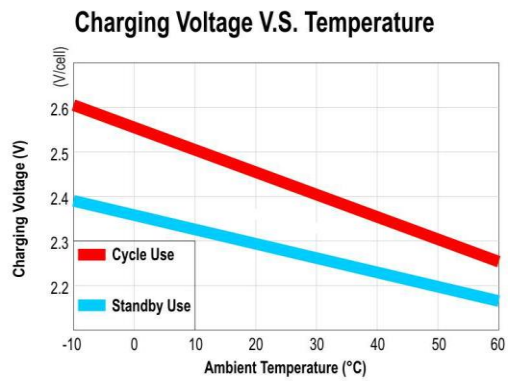
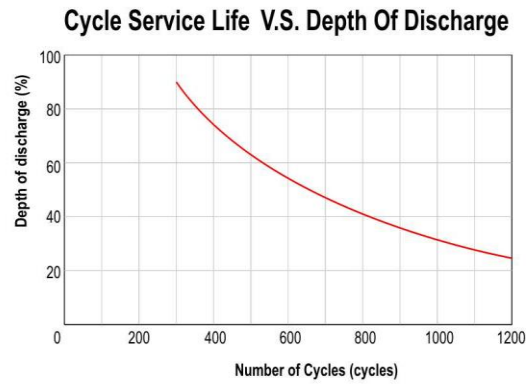
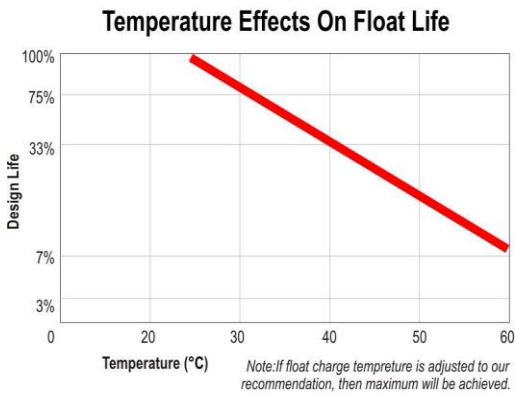
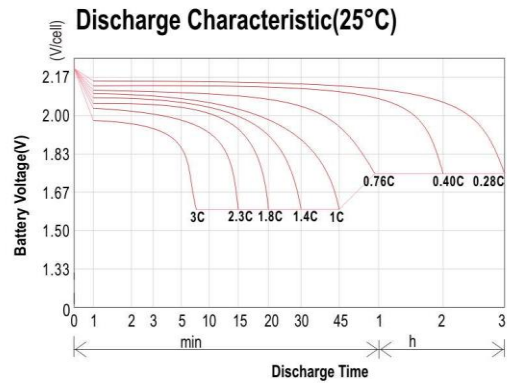
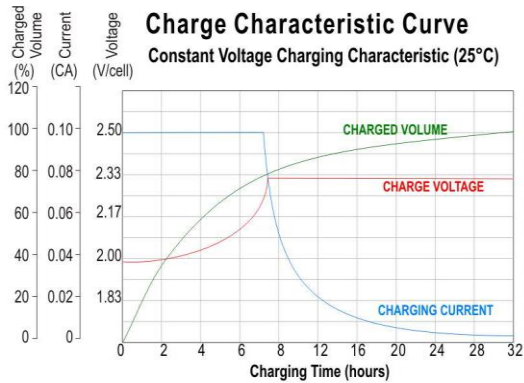
Page 1 of 2

# VNH12-80W T3

12V 80 W/Cell 15min (20Ah / 20h)



Graphs



Subject to revision without notice. Please contact our sales representatives for latest version.

Web: [www.jysk-akku.dk](http://www.jysk-akku.dk)

E-mail: [jvba@jysk-akku.dk](mailto:jvba@jysk-akku.dk)

Version No.: 18-01-2021